



#4  
L. Webb  
11/21/98

Sheet 1 of 17

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 5038.00	SERIAL NO. 08/815,168
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)		APPLICANT Michael J. FREEMAN et al.	
		FILING DATE 11 March 1997	GROUP

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HVT	AA	3 9 4 7 9 7 2	4/6/76	Freeman			
	AB	4 0 3 4 9 9 0	7/12/77	Baer			
	AC	4 2 6 4 9 2 4	4/28/81	Freeman			
	AD	4 2 6 4 9 2 5	4/28/81	Freeman et al.			
	AE	4 2 9 0 1 4 2	9/15/81	Schnee et al.			
	AF	4 3 6 1 7 3 0	11/30/82	Barber et al.			
	AG	4 5 3 0 0 0 8	7/16/85	McVoy			
	AH	4 5 3 6 7 9 1	8/20/85	Campbell et al.			
	AI	4 5 0 7 6 8 0	3/26/85	Freeman			
	AJ	4 5 7 3 0 7 2	2/25/86	Freeman			
	AK	4 6 0 2 2 7 9	7/22/86	Freeman			

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	4 2 0 7 8 8 5	7/29/92	Japan				
	AM	6 1 6 5 1 7 0	6/18/94	Japan				
	AN	9 9 4 2 3 3	6/2/65	Germany				
	AO	1 2 8 4 8 1	12/19/84	Europe				
	AP	1 6 3 1 4 -	10/01/80	Europe				

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AQ	Harless et al., Interactive Video Disc Case Studies for Medical Education, Proceedings, 10th Annual Symposium on Computer Applications in Medical Care, October 25-26, 1986, pp. 183-187.
AR	Bock, Videodisk Standards: A Software View of the Technology, 8012 SMPTE Journal, vol. 92, no. 5, May 1983, pp. 571-576.

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>HUT</i>	BA	4 6 4 4 5 1 5	2/17/87	Allebest et al.			
	BB	4 6 9 4 4 9 0	9/15/87	Harvey et al.			
	BC	4 7 0 1 8 9 6	10/20/87	Allebest et al.			
	BD	4 7 0 4 7 2 5	11/3/87	Harvey et al.			
	BE	4 7 5 0 0 3 6	6/7/88	Martinez			
	BF	4 7 6 3 3 1 7	8/9/88	Lehman et al.			
	BG	4 7 8 6 9 6 7	11/22/88	Smith, III et al.			
	BH	4 8 0 7 0 3 1	2/21/89	Broughton et al.			
	BI	4 8 3 9 7 4 3	6/13/89	Best et al.			
	BJ	4 8 4 6 6 9 3	7/11/89	Baer			
	BK	4 8 4 7 7 0 0	7/11/89	Freeman			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BL	8 1 0 2 9 6 1	10/15/81	PCT				
	BM	9 4 0 3 8 5 1	2/17/94	PCT				
	BN	3 1 4 5 7 2	5/3/89	Europe				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BO	Campbell, Optimal Decision Making in a Business Simulation, System Sciences, 1989 Annual Hawaii International Conference, vol. III, pp. 822-831.
BP	Dawson, Compression on the Fast Track, Cablevision, April 22, 1991, pp. 22-30.

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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
H/T	CA	4 8 5 5 8 2 7	8/8/89	Best			
	CB	4 8 6 2 2 6 8	8/29/89	Campbell et al.			
	CC	4 8 7 5 0 9 6	10/17/89	Baer et al.			
	CD	4 9 2 4 3 0 3	5/8/90	Brandon et al.			
	CE	4 9 6 5 8 2 5	10/23/90	Harvey et al.			
	CF	4 9 7 5 7 7 1	12/4/90	Kassatly			
	CG	4 9 8 7 4 8 6	1/22/91	Johnson et al.			
	CH	5 0 0 1 5 5 4	3/19/91	Johnson et al.			
	CI	5 0 1 0 5 0 0	4/23/91	Makkuni et al.			
	CJ	5 0 1 4 1 2 5	5/7/91	Pocock et al.			
	CK	5 0 3 4 8 0 7	7/23/91	Von Kohorn			

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

CL	Martial et al., An Interactive Planner for Open Systems, Proceedings of the 4th Conference on Artificial Intelligence, March 1988, pp. 293-298.
CM	Gault, Turning Cold Box Into Interactive TV, Crain's New York Business, July 15, 1991, p. 17.

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<i>[Signature]</i>	9/1/01

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>HT</i>	DA	5 0 5 1 8 2 2	9/24/91	Rhoades			
	DB	5 0 9 3 7 1 8	3/3/92	Hoarty et al.			
	DC	5 1 0 9 4 1 4	4/28/92	Harvey et al.			
	DD	5 1 5 7 4 9 1	10/20/92	Kassatly			
	DE	5 1 7 7 6 0 4	1/5/93	Martinez			
	DF	5 1 8 1 1 0 7	1/19/93	Rhoades			
	DG	5 2 2 0 4 2 0	6/15/93	Hoarty et al.			
	DH	5 2 2 7 8 7 4	7/13/93	Von Kohorn			
	DI	5 2 3 6 1 9 9	8/17/93	Thompson, Jr.			
	DJ	5 2 4 7 3 4 7	9/21/93	Litteral et al.			
	DK	4 5 1 6 1 5 6	5/7/85	Fabris et al.			

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

DL	Tsuruta et al., A Knowledge Based Interactive Train Scheduling System
	Aiming at Large Scale Complex Planning Expert Systems, International
	Workshop on Artificial Intelligence for Industrial Applications,
	1988, pp. 490-495.
DM	Gilder, Now or Never, Forbes, October 14, 1991, pp. 188-198.

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H/T	EA	4 3 0 5 1 3 1	12/8/81	Best			
	EB	4 7 6 8 0 8 7	8/30/88	Taub et al.			
	EC	5 1 7 6 5 2 0	1/5/93	Hamilton			
	ED	5 3 1 8 4 5 0	6/7/94	Carver			
	EF	5 1 7 4 7 5 9	12/2/92	Preston et al.			
	EG	4 9 2 6 2 5 5	5/15/90	Von Kohorn			
	EH	3 0 0 8 0 0 0	11/7/61	Morchand			
	ET	3 9 3 6 5 9 5	2/3/76	Yanagimachi et al.			
	EJ	3 9 8 8 5 2 8	10/26/76	Yanagimachi et al.			
	EK	4 3 3 3 1 5 2	6/1/82	Best			
	EL	4 4 2 2 1 0 5	12/20/83	Rodesch et al.			

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EM	Kim, First All-Digital HDTV Developed by Video Cipher, Multichannel News, June 11, 1990, p. 35.
EN	Kim, ATC: Technical Tidal Wave to Engulf Cable Industry, Multichannel News, August 13, 1990, pp. 33-34.
EO	Kim, Jerrold Offers Cable Digital Compression, Multichannel News, March 11, 1991, p. 6.

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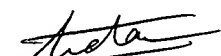
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<u>W/T</u>	FA	4 6 3 5 1 3 2	1/6/87	Nakamura			
	FB	4 8 4 7 6 9 0	7/11/89	Perkins			
	FC	2 6 1 2 5 5 3	9/30/52	Homrighous			
	FD	2 7 7 7 9 0 1	1/15/57	Dostert			
	FE	2 8 2 6 8 2 8	3/18/58	Hamilton			
	FG	2 9 0 8 7 6 7	10/13/59	Fritzinger			
	FH	2 9 2 1 3 8 5	1/19/60	Hamilton			
	FI	3 0 2 0 3 6 0	2/6/62	Gratian et al.			
	FJ	3 1 9 4 8 9 5	7/13/65	Treadwell			
	FK	3 2 2 1 0 9 8	11/30/65	Feldman et al.			
	FL	3 2 4 5 1 5 7	4/12/66	Laviana			

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### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

FM	Kim, Test Equipment for Digital Still a Puzzle, Multichannel News, May 27, 1991, p. 24.
FN	Powell, Digitizing TV Into Obsolescence, New York Times, October 20, 1991.
FO	Waters et al., Talking Back to the Tube, Newsweek, December 3, 1990, pp. 56-57.

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HVT	GA 3 2 5 5 5 3 6	6/14/66	Livingston			
	GB 3 2 7 3 2 6 0	9/20/66	Walker			
	GC 3 2 8 4 9 2 3	11/15/66	Leslie			
	GD 3 3 4 3 2 8 0	9/26/67	Tolnai			
	GE 3 3 6 6 7 3 1	1/30/68	Wallerstein			
	GF 3 3 8 7 0 8 4	6/4/68	Hine et al.			
	GG 3 4 4 0 3 4 2	4/22/69	Beltrami			
	GH 3 4 7 7 1 4 4	11/11/69	Stillit			
	GI 3 4 8 5 9 4 6	12/23/69	Jackson et al.			
	GJ 3 4 8 4 9 5 0	12/23/69	Serrell et al.			
	GK 3 5 3 8 6 2 1	11/10/70	Maveda			

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												YES	NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

GL	Will it Revolutionize HDTV?, Broadcasting, June 4, 1990, pp. 33-34.
GM	Video Storage In Digital Transmission, Specs Technology, Cable Television Laboratories, Vol. 3, No. 7, September 1991, pp. 1-6.

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<u>HVT</u>	HA	3 5 4 6 7 9 1	12/15/70	Koos et al.			
	HB	3 5 6 6 4 8 2	3/2/71	Morchand			
	HC	3 5 7 5 8 6 1	4/20/71	Pratt et al.			
	HD	3 6 0 2 5 8 2	8/31/71	Torricelli			
	HE	3 6 2 3 2 3 8	11/30/71	Laplume et al.			
	HF	3 6 6 5 6 1 5	5/30/72	Laplume			
	HG	3 7 0 8 8 9 1	1/9/73	Rosov			
	HH	3 7 2 5 5 7 1	4/3/73	Justice			
	HI	3 7 3 0 9 8 0	5/1/73	Kirk, Jr.			
	HJ	3 7 5 7 2 2 5	9/4/73	Ulicki			
	HK	3 7 7 4 3 1 6	11/27/73	Meier			

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HVR	IA	3 8 1 4 8 4 1	6/4/74	Ulicki			
	IB	3 8 2 5 6 7 4	7/23/74	Justice			
	IC	3 8 3 3 7 6 0	9/3/74	Tickle			
	ID	3 8 4 9 5 9 4	11/19/74	Justice			
	IE	3 8 5 7 9 9 9	12/31/74	Justice			
	IF	3 8 6 0 7 4 5	1/14/75	Takada			
	IG	3 9 0 2 0 0 7	8/26/75	Justice			
	IH	3 9 1 6 0 9 2	10/28/75	Justice			
	II	3 9 9 1 2 6 6	11/9/76	Baer			
	IJ	4 0 4 0 0 8 8	8/2/77	Hannan			
	IK	4 0 4 4 3 8 0	8/23/77	Justice et al.			

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HVT	JA	4 2 4 5 2 4 5	1/13/81	Matsumoto et al.			
	JB	4 2 9 2 6 4 9	9/29/81	Macheboeuf			
	JC	4 3 3 1 9 7 4	5/25/82	Cogswell et al.			
	JD	4 3 8 1 5 2 2	4/26/83	Lambert			
	JE	4 4 3 9 7 8 4	3/27/84	Furukawa et al.			
	JF	4 4 4 5 1 3 7	4/24/84	Panofsky			
	JG	4 4 4 5 1 8 7	4/24/84	Best			
	JH	4 5 4 6 3 8 2	10/8/85	McKenna et al.			
	JI	4 5 5 5 7 3 0	11/26/85	Briggs			
	JJ	4 5 6 9 0 2 6	2/4/86	Best			
	JK	4 5 7 1 6 4 0	2/18/86	Baer			

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H/T	KA	4 5 7 4 3 0 5	3/4/86	Campbell et al.			
	KB	4 5 9 1 2 4 8	5/27/86	Freeman			
	KC	4 5 9 9 6 1 1	7/8/86	Bowker et al.			
	KD	4 6 1 6 2 6 1	10/7/86	Crawford et al.			
	KE	4 6 4 7 9 8 0	3/3/87	Stevenson et al.			
	KF	4 7 3 3 3 0 1	3/22/88	Wright, Jr.			
	KG	4 7 3 4 7 6 4	3/29/88	Pocock et al.			
	KH	4 7 7 7 5 2 9	10/11/88	Schultz			
	KI	4 7 8 0 7 5 7	10/25/88	Bryer et al.			
	KJ	4 7 8 0 7 5 8	10/25/88	Lin et al.			
	KK	4 7 8 5 3 4 9	11/15/88	Keith et al.			

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H/T	LA	4 8 1 6 9 0 5	3/28/89	Tweedy et al.			
	LB	4 8 2 1 1 0 1	4/11/89	Short			
	LC	4 8 4 7 6 9 8	7/11/89	Freeman			
	LD	4 8 7 6 5 9 2	10/24/89	Von Kohorn			
	LE	4 8 9 4 7 8 9	1/16/90	Yee			
	LF	4 9 0 5 0 9 4	2/27/90	Pocock et al.			
	LG	4 9 1 8 5 1 6	4/17/90	Freeman			
	LH	4 9 3 0 0 1 9	5/29/90	Chu			
	LI	4 9 4 9 1 7 0	8/14/90	Yanagidaira et al.			
	LJ	4 9 8 8 1 1 1	1/29/91	Gerlitz et al.			
	LK	4 9 8 9 2 3 3	1/29/91	Schakowsky et al.			

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JTS	MA	4	9	8	9	2	3	4	1/29/91	Schakowsky et al.			
	MB	4	9	9	1	0	1	1	2/5/91	Johnson et al.			
	MC	4	9	9	4	9	0	8	2/19/91	Kuban et al.			
	MD	5	0	1	0	4	0	0	4/23/91	Oto			
	ME	5	0	2	3	7	0	7	6/11/91	Briggs			
	MF	5	0	5	3	8	8	3	10/1/91	Johnson			
	MG	5	0	5	5	9	2	4	10/8/91	Skutta			
	MH	5	0	5	7	9	1	5	10/15/91	Von Kohorn			
	MI	5	0	7	7	6	0	7	12/31/91	Johnson et al.			
	MJ	5	0	9	0	7	0	8	2/25/92	Gerlitz et al.			
	MK	5	1	3	2	9	9	2	7/21/92	Yurt			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER	DATE CONSIDERED
<i>[Signature]</i>	5/1/01

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Rev. 2-32)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. <u>5038.00</u>	SERIAL NO. <u>08/815.168</u>
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)		APPLICANT <u>Michael J. FREEMAN et al.</u>	
		FILING DATE <u>11 March 1997</u>	GROUP

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<u>WV</u>	NA	5 1 3 3 0 7 9	5/11/93	Ballantyne			
	NB	R E 3 2 7 7 6	11/1/88	Saylor			
	NC	R E 3 4 3 4 0	8/10/93	Freeman			
	ND	3 7 6 3 3 7 7	10/9/73	Weston			
	NE	4 8 8 4 9 7 4	12/5/89	DeSmet			
	NF	3 6 4 3 2 1 7	2/15/72	Morphew et al.			
	NG	4 0 7 8 3 1 6	3/14/78	Freeman			
	NH	4 1 9 9 7 8 1	4/22/80	Doumit			
	NI	4 3 9 9 3 2 9	8/16/83	Wharton			
	NJ	4 6 6 5 4 3 1	5/12/87	Cooper			
	NK	4 9 4 1 0 4 0	7/10/90	Pocock et al.			

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

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EXAMINER <u>WV</u>	DATE CONSIDERED <u>5/1/01</u>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)		APPLICANT Michael J. FREEMAN et al.	
		FILING DATE 11 March 1997	GROUP


### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HIT	OA	5 2 1 0 6 1 1	5/11/93	Yee et al.			
	OB	5 2 3 9 6 1 7	8/24/93	Gardner et al.			
	OC	4 8 7 0 5 9 1	9/26/89	Cicciarella et al.			
	OD	5 0 4 3 8 9 1	8/27/91	Goldstein et al.			
	OE	5 3 4 0 3 1 7	8/23/94	Freeman			
	OF	4 9 7 2 3 2 8	11/20/90	Wu et al.			
	OG	4 9 1 6 6 3 3	4/10/90	Tychonievich et al.			
	OH	4 9 1 8 6 2 0	4/17/90	Ulug			
	OI	4 9 6 7 3 6 8	10/30/90	Bolling et al.			
	OJ	5 4 0 5 1 5 2	4/11/95	Katanics et al.			
	OK	5 5 3 7 1 4 1	7/16/96	Harper et al.			

### FOREIGN PATENT DOCUMENTS

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		FILING DATE 11 March 1997	GROUP


**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HVT	PA	5 2 3 9 4 6 3	8/23/93	Blair et al.			
	PB	5 5 2 6 4 7 8	6/11/96	Russell, Jr. et al.			
	PC	5 4 8 8 4 1 1	1/30/96	Lewis et al.			
	PD	5 4 4 2 3 8 9	8/15/95	Blahut et al.			
	PE	5 4 0 4 3 9 3	4/4/95	Remillard			
	PF	4 8 4 7 6 9 9	7/11/89	Freeman			
	PG	4 3 0 5 1 3 1	12/8/81	Best			
	PH	5 2 3 9 4 6 3	8/24/93	Blair et al.			
	PI	2 9 0 8 7 6 7	10/13/59	Fritzinger			
	PJ	3 7 0 8 8 9 1	1/9/73	Rosov			
*	PK	5 5 8 5 8 5 8	12/96	Harper et al.			

**FOREIGN PATENT DOCUMENTS**

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)		APPLICANT Michael J. FREEMAN et al.	
		FILING DATE 11 March 1997	GROUP


**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HVT	5 0 3 3 9 6 9	7/23/91	Kamimura			
	5 1 0 9 4 8 2	4/28/92	Bohrman			
	5 2 6 1 8 2 0	11/16/93	Slye et al.			
	5 3 8 8 1 9 7	2/7/95	Rayner			
	5 4 5 4 7 2 2	10/3/95	Holland et al.			
	5 4 5 5 9 1 0	10/3/95	Johnson et al.			
	5 4 6 7 2 8 8	11/14/95	Fasciano et al.			
	5 5 4 1 6 6 2	7/30/96	Adams et al.			
	5 5 5 7 7 2 4	9/17/96	Sampat et al.			
	5 5 9 4 4 9 2	1/14/97	O'Callaghan et al.			
	5 5 9 4 9 3 5	1/14/97	Reber et al.			

**FOREIGN PATENT DOCUMENTS**

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						YES	NO

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**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

Docket Number (Optional)

3.00

Application Number

08/815168

Applicant(s)

Michael J. Freeman and Craig Ullman

Filing Date

Mar. 11, 1997

Group Art Unit

2776

MAIL DATE CANCELLED

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HUG		5068733	11/1991	Bennett			
1		5600368	12/1997	Matthews, III			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

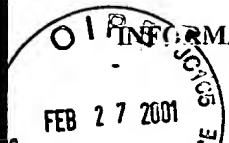

EXAMINER

*[Signature]*

DATE CONSIDERED

5/1/01

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	Docket Number (Optional) 5038.00	Application Number 08/815,168
	Applicant(s) FREEMAN et al.	
	Filing Date March 11, 1997	Group Art Unit 2776

### U.S. PATENT DOCUMENTS


EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
HVT	A	5,027,400	06/25/91	BAJI et al.	380	20	
	B	5,534,944	07/09/96	EGAWA et al.	348	584	
	C	5,600,573	02/04/97	HENDRICKS et al.	364	514 R	
	D	5,610,661	05/11/97	BHATT	348	446	

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